

**CBCS SYLLABUS**  
**FOR**  
**THREE YEARS UNDER-GRADUATE COURSE**  
**IN**  
**PHYSICS (PROGRAMME)**  
*(w.e.f. 2017-2018)*



**BANKURA UNIVERSITY**  
**BANKURA**  
**WEST BENGAL**  
**PIN 722155**

**STRUCTURE IN PHYSICS (PROGRAMME)****SEMESTER –I**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/PHS/101/C-1A	Physics I	4	10	25	50	4		4
	Physics I Lab	2		15				
SP/102/ C-2A	Discipline-2	6	10	40	50			
SP/103/ C-3A	Discipline-3	6	10	40	50			
ACSHP/ 104/ AECC-1	Environmental Studies	4	10	40	50			
<b>Total in Semester - I</b>		<b>22</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER –II**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/PHS/201/C-1B	Physics II	4	10	25	50	4		4
	Physics II Lab	2		15				
SP/202/ C-2B	Discipline - 2	6	10	40	50			
SP/ 203/C- 3B	Discipline - 3	6	10	40	50			
ACSHP/204/ AECC-2	English/MIL	2	10	40	50			
<b>Total in Semester - II</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER –III**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/PHS/ 301/C-1C	Physics III	4	10	25	50	4		4
	Physics III Lab	2		15				
SP/302/C-2C	Discipline - 2	6	10	40	50			
SP/ 303/ C-3C	Discipline - 3	6	10	40	50			
SP/PHS/304/SE C-1	Computational Physics (SEC T1) / Renewable Energy and Energy Harvesting (SEC T2)	2	10	40	50			
<b>Total in Semester - III</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER –IV**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/PHS/401/C- 1D	Physics IV	4	10	25	50	4		4
	Physics IV Lab	2		15				
SP/ 402/ C-2D	Discipline-2	6	10	40	50			
SP/ 403/ C-3D	Discipline-3	6	10	40	50			
SP/PHS/404/ SEC-2	Radiation Safety (SEC T3)/ Weather Forecasting (SEC T4)	2	10	40	50			
<b>Total in Semester - IV</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER – V**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/PHS/501/D SE-1A	Advanced Mathematical Physics (DSE T1) Or Classical Dynamics (DSE T2)	6	10	40	50	5	1	
SP/ 502/DSE- 2A	Discipline - 2	6	10	40	50			
SP/ 503/DSE- 3A	Discipline - 3	6	10	40	50			
SP/PHS/504/SE C-3	Physics Workshop Skill (SEC T5) / Electrical Circuits and Network Skills (SEC T6)	2	10	40	50			
<b>Total in Semester – V</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

**SEMESTER – VI**

Course Code	Course Title	Credit	Marks			No. of Hours		
			I.A.	ESE	Total	Lec.	Tu.	Pr.
SP/PHS/ 601/DSE-1B	Physics of Earth (DSE T5) Or Biological Physics (DSE T6)	6	10	40	50	5	1	
SP/ 602/DSE- 2B	Discipline - 2	6	10	40	50			
SP/ 603/DSE- 3B	Discipline - 3	6	10	40	50			
SP/PHS/ 604/SEC-4	Basic Instrumentation Skills (SEC T7) /Applied Optics (SEC T8)	2	10	40	50			
<b>Total in Semester – VI</b>		<b>20</b>	<b>40</b>	<b>160</b>	<b>200</b>			

SP= Science programme/Pass, PHS.= Physics, ACSHP= Arts Commerce Science Honours Pass, C= Core Course, MIL= Modern Indian Language, AECC = Ability Enhancement Compulsory Course, SEC= Skill Enhancement Course, DSE= Discipline Specific Elective IA= Internal Assessment, ESE= End-Semester Examination, Lec.= Lecture, Tu.= Tutorial, and Pr.=Practical